	Application No.	A-dia-d(-)
Notice of Allowability	Application No.	Applicant(s)
	10/698,472	OGIWARA ET AL.
	Examiner	Art Unit
	Ari M. Diacou	3663
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to the remarks filed 1-6-2006.		
2. The allowed claim(s) is/are <u>1,4-14,21 and 22</u> .		
 3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been received. 		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	E	Setent Application (DTO 452)
1. Notice of References Cited (PTO-892)		ratent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Da	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date		
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛭 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.	

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DETAILED ACTION

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: Hybrid optical amplifier with specific coupler for routing pumping light.

Allowable Subject Matter

- 2. Claims 1, 4-14, and 21-22 are allowed.
- 3. Regarding claim 21, the prior art does not teach or make obvious the use of
 - The fiber grating reflecting the second pump light at a specific wavelength
 provided to the fiber grating so that the reflected second pump light
 counterpropagates through the rare-earth-doped fiber amplification medium
 with the signal light.

within the context of claim 21 taken as a whole.

- 4. Regarding claim 22, the prior art does not teach or make obvious the use of
 - The optical coupler causes the second pump light at the specific wavelength provided to the optical coupler to be introduced to the rare-earth-doped optical amplification medium so that the introduced second pump light

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copropagates through the rare-earth-doped optical amplification medium with the signal light.

within the context of claim 22 taken as a whole.

- 5. Regarding claim 1, the prior art does not teach or make obvious the use of
 - Said pumping introducing means introduces a part or all of said
 counterpropagating pumping light beam at a specific wavelength of said
 counterpropagating pumping light beams from said counterpropagating
 pumping sources as a pumping light beam for said rare-earth-doped optical
 amplification medium to laid rare-earth-doped optical amplification medium,
 and transmits at least said copropagating pumping Light beam at said specific
 wavelength from said copropagating pumping source as another pumping
 light beam for said rare-earth-doped optical amplification medium to said rare-earth-doped optical amplification medium.

within the context of claim 1 taken as a whole.

Conclusion

6. The prior art which is cited but not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ari M. Diacou whose telephone number is (571) 272
5591. The examiner can normally be reached on Monday - Friday, 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Keith can be reached on (571) 272-6878. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AMD 2/23/2006

SUPERVISORY PATENT EXAMINER